

Table 1: Significance table.

|   | Events <sub>after<math>\alpha</math>lphat<math>\alpha</math>nd<math>P</math>FS<math>L</math>cuts</sub> | Events <sub>after<math>\alpha</math>lphat<math>\alpha</math>nd<math>S</math><math>L</math>cuts</sub> | Events <sub>after<math>\alpha</math>lphat<math>r_e</math>nd<math>P</math>FS<math>L</math>cuts</sub> | Events <sub>after<math>\alpha</math>lphat<math>r_e</math>nd<math>S</math><math>L</math>cuts</sub> |
|---|--|--|---|---|
| QCD <sub><math>Pt15</math></sub>              | 4801 +- 4801   | 9602 +- 6789   | 4801 +- 4801  | 9602 +- 6789  |
| QCD <sub><math>Pt30</math></sub>              | 387.2 +- 387.2   | 387.2 +- 387.2   | 387.2 +- 387.2  | 387.2 +- 387.2  |
| QCD <sub><math>Pt80</math></sub>              | 67.95 +- 25.68   | 135.9 +- 36.32   | 67.95 +- 25.68  | 126.2 +- 35   |
| QCD <sub><math>Pt170</math></sub>             | 23.48 +- 2.532   | 12.56 +- 1.852   | 21.84 +- 2.442  | 10.92 +- 1.727  |
| QCD <sub><math>Pt300</math></sub>             | 2.694 +- 0.1868  | 0.285 +- 0.06076   | 2.409 +- 0.1767   | 0.2202 +- 0.05341   |
| QCD <sub><math>Pt470</math></sub>             | 0.5698 +- 0.028  | 0.002753 +- 0.001946   | 0.5037 +- 0.02633   | 0.002753 +- 0.001946  |
| QCD <sub><math>Pt800</math></sub>             | 0.0344 +- 0.00108  | 0 +- 0   | 0.03012 +- 0.001011   | 0 +- 0  |
| QCD <sub><math>Pt1400</math></sub>            | 0.0003132 +- 1.002e-05   | 0 +- 0   | 0.0002821 +- 9.509e-06  | 0 +- 0  |
| TTbar <sub><math>t</math>emp</sub>            | 66.29 +- 0.5046  | 62.59 +- 0.4903  | 59.49 +- 0.478  | 54.78 +- 0.4586   |
| WJets <sub><math>t</math>emp</sub>            | 203.7 +- 4.069   | 271.8 +- 4.699   | 197.3 +- 4.004  | 266.9 +- 4.657  |
| ZJets <sub><math>t</math>emp</sub>            | 3.969 +- 0.5452  | 4.793 +- 0.5991  | 3.969 +- 0.5452   | 4.868 +- 0.6038   |
| ww <sub><math>p</math>at<math>_1</math></sub> | 4.54 +- 0.1871   | 5.095 +- 0.1982  | 4.417 +- 0.1845   | 4.948 +- 0.1953   |
| wz <sub><math>p</math>at<math>_1</math></sub> | 2.395 +- 0.0849  | 2.913 +- 0.09363   | 2.35 +- 0.0841  | 2.829 +- 0.09227  |
| zz <sub><math>p</math>at<math>_1</math></sub> | 1.084 +- 0.03298   | 1.498 +- 0.03878   | 1.056 +- 0.03255  | 1.451 +- 0.03816  |
| LM9t <sub><math>t</math>emp</sub>             | 1.916 +- 0.03538   | 1.84 +- 0.03467  | 1.581 +- 0.03214  | 1.544 +- 0.03175  |
| Significancy                                  | 0.02569  | 0.01797  | 0.02123   | 0.0151  |
| QCD Significancy                              | 0.02636  | 0.01828  | 0.02176   | 0.01534   |